

Passive CWDM, Single LGX Mux, 4 Ch. w/20nm spacing, start ch 1550nm, LC/UPC w/MON (1%) & Pass Single com fiber



PCWDM-LGXM-42055

Features

- Passive
- CWDM
- 20nm spacing
- Standard LGX cassette
- Single Fiber Mux
- 4 Channels
- Starting with channel 1551nm
- LC/UPC connectors
- 1% Monitor option
- Pass /Express option

Applications

- Single Mode Fiber Networking
- Single Fiber
- Mux function
- Metro transport
- Regional Distribution
- Inside Plant (ISP) Operation

Description

The PolyPhaser PCWDM-LGXM-42055 is a CWDM Passive Filter with 4 CWDM Channels. The PolyPhaser PCWDM-LGXM-42055 is a single HU LGX cassette filter with Mux functionality. The PolyPhaser PCWDM-LGXM-42055 has 4 channels: 1551, 1571, 1591, and 1611nm, starting with 1551nm and with 20nm spacing. The PolyPhaser PCWDM-LGXM-42055 has LC/UPC connectors and has Monitor port option and a PASS port to carry the unused CWDM channels through. The PolyPhaser PCWDM-LGXM-42055 is a single fiber filter for sending channels muxed into a COM signal. PolyPhaser produces the high quality passive filters that your business can rely on. With products continually in stock and same-day shipping, our expert technical support and knowledgeable sales team can get you to the right parts for the job.

Configuration

| | |
|--------------------|--------|
| Connector Type | LC/UPC |
| Number of Channels | 4 |
| Module Function | Mux |
| Filter Type | CWDM |

Filter Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------------------|---------|---------|---------|-------|
| Operating Wavelength | 1260 | | 1635 | nm |
| Pass Port Wavelength | 1,271 | | 1,611 | nm |
| Pass Port Insertion Loss | | | 1.8 | dB |
| Pass Port Isolation | 12 | | | dB |
| Pass Band | 6.5 | | | nm |
| Pass Band Ripple | | | 0.5 | dB |
| Center Wavelength (Channel) | 1,551 | | 1,611 | nm |
| Channel Spacing | | 20 | | nm |
| Channel Insertion Loss | | | 2 | dB |
| Return Loss | 45 | | | dB |
| Directivity | | | 50 | dB |
| PDL | | | 0.25 | dB |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[Passive CWDM, Single LGX Mux, 4 Ch. w/20nm spacing, start ch 1550nm, LC/UPC w/MON \(1%\) & Pass Single com fiber PCWDM-LGXM-42055](#)

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| | | |
|------------------------------|--------------------|---------|
| PMD | 0.2 | PS |
| Power Handling | 300 | mW |
| Channel to Moniter Port IL | 25 | dB |
| COM to Moniter Port IL | 23 | dB |
| IL Thermal Stability | 0.005 | dB/degC |
| Wavelength Thermal Stability | 0.002 | nm/degC |
| <hr/> | | |
| Weight | 0.7 lbs [317.51 g] | |

Environmental Specifications

Temperature

| | |
|-----------------|------------------|
| Operating Range | -20 to +65 deg C |
| Storage Range | -40 to +85 deg C |
| Humidity | 5-98 %RH |

Compliance Certifications

(see [product page](#) for current document)

Plotted and Other Data

Notes:

PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service and expert technical support PolyPhaser continually expands its product offering and services to serve engineers' urgent needs for RF components in mission critical communication networks.

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URL: <https://www.polyphaser.com/passive-cwdm-single-lgx-mux-4-ch-w-20nm-spacing-start-ch-1550nm-lc-upc-w-mon-1-pass-single-com-fiber-pcwdm-lgxm-42055-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. PolyPhaser reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. PolyPhaser does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and PolyPhaser does not assume any liability arising out of the use of any part or documentation.

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PCWDM-LGXM-42055 CAD Drawing

